

## ABSTRACT

The invention relates to a flexible electrical elongated device, suitable for service in a high mechanical load environment, wherein said device has a longitudinal axis, and comprises:

- at least one elongated electrical conductor element,
- an elongated load bearing component along said longitudinal axis and having an external surface including at least one groove disposed along said longitudinal axis,

said groove being designed for holding said conductor element within it while allowing said conductor element to move substantially radially when said device is bent.

Figure 2a to be published